

**Earth Day 2005  
P2 Star Award Ceremony  
Office of Environment, Safety and Health**

**P2 Star Award Background**

- 2005 is the inaugural year of the Office of Environment, Safety and Health's Pollution Prevention ("P2") Star Award. The P2 Star Award is an extension of DOE's pollution prevention awards program which is in its 11<sup>th</sup> year
- Pollution prevention contributes to the safety of our operations, health of our workers, and protection of the environment
- P2 Star Award recipients were selected from 33 nominations from across the complex representing a wide-range of exemplary performance in integrating pollution prevention to:
  - reduce risk
  - protect natural resources
  - enhance site operations
- Duplicates of these awards will be given to site representatives next month at the *NNSA/DOE P2 Workshop*

**P2 Star Award Recipients (Click Here for Photos)**

**1. General Ronald Haeckel      National Nuclear Security Administration**

**Lawrence Livermore National Laboratory – Chemistry Environmental Services'  
Low-level Waste Stream Development**

- Chemistry Environmental Services (on-site environmental analytical laboratory) developed
  - rigorous radioactive characterization strategy, and
  - program to identify and segregate hazardous materials
- Reduced mixed waste generation by 44%
- Significantly reduced personnel exposure to hazardous waste streams

**2. Doug Faulkner      Office of Energy Efficiency and Renewable Energy (EE)**

**Green Fleet Team  
National Energy Technology Laboratory (NETL)  
National Renewable Energy Laboratory (NREL)  
Savannah River Site**

- Significantly reduced petroleum consumption through efficiency measures and alternative fuel use

- Provides leadership by example for DOE and Federal agencies
- 67% of NREL's vehicles use compressed natural gas or ethanol (E85)
- 69% of NETL's vehicles use alternative fuels
- NETL increased alternative fuel use by 20% over last year
- Savannah River Site
  - operates over 400 E85 vehicles
  - has 2 on-site E85 fueling stations

### **3. Paul Golan            Office of Environmental Management**

#### **Savannah River Site – New Market for Unserviceable Cargo Containers**

- Developed program to recycle unserviceable cargo containers for use as waste disposal containers
- South Carolina small business refurbishes the cargo containers enhancing local economy
- Refurbished containers now used at several DOE sites
- Savannah River Site estimates \$12 million in savings over 3 years

### **4. John Shages            Office of Fossil Energy**

#### **Strategic Petroleum Reserve – Preventing Downstream Emissions through Sustainable Product Stewardship**

- Fully integrated site's environmental management system (EMS) into planning and developing a degasification technology that:
  - maximizes retention and use of valuable product
  - minimizes waste
  - eliminates 77,000 tons of air emissions
  - adds life-cycle business value of \$218 million
  - protects workers, the public, the environment
- Strategic Petroleum Reserve also received a White House Closing the Circle Honorable Mention for this project
- White House Closing the Circle competition is a nationwide competition open to all Federal agencies

### **5. Bob Baney            Office of Legacy Management**

#### **Grand Junction Office – Reusing Laboratory Equipment and Supplies**

- Transferred \$3 million worth of reusable sophisticated instrumentation systems, precious metals, and analytical equipment to universities, colleges and DOE labs
- Eliminated waste streams
- Saved taxpayer dollars

**6. Dr. Donald Erbschloe     Office of Science**

**Pacific Northwest National Laboratory – Early Adopters Buy Bio:  
Greening Our Purchasing System**

- Embedded environmentally preferable purchasing (EPP) into site EMS resulting in:
  - incorporating EPP terms in high-volume supply contracts
  - 97% purchase compliance rate for recycled content products
  - redistribution and reuse of chemicals rather than disposal
  - enhanced worker health through use of bio-based products